

TOWER SEMICONDUCTOR LTD

Form 6-K

April 23, 2010

Article I. FORM 6-K

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

For the month of April 2010 (No. 4)

TOWER SEMICONDUCTOR LTD.
(Translation of registrant's name into English)

Ramat Gavriel Industrial Park
P.O. Box 619, Migdal Haemek, Israel 23105
(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F.

Form 20-F Form 40-F

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes No

On April 22, 2010, we entered into Amendment No. 3 to the Standby Equity Purchase Agreement dated August 11, 2009 between us and YA Global Master SPV Ltd., as amended by Amendment No. 1 thereto dated August 27, 2009 and Amendment No. 2 thereto dated February 4, 2010 (the "SEPA").

Amendment No. 3 to the SEPA increases the amount of our ordinary shares that YA Global is committed to purchase under the SEPA, upon the terms and subject to the conditions set forth therein, by \$35 million. To date an aggregate of \$24,950,815 of our ordinary shares have been sold to YA Global under the SEPA. Under the terms of the SEPA, as so amended, from time to time through March 31, 2012, and at our sole and exclusive option, we may present YA Global with advance notices to purchase up to \$35,049,185 of our ordinary shares.

Amendment No. 3 provides for the payment to YA Global of an additional commitment fee of \$300,000 in connection with the amendment, of which \$150,000 is payable at the time of the delivery of the next advance notice under the SEPA and the balance of which is payable nine months thereafter. Under the terms of the SEPA, we may at our option issue additional ordinary shares in payment of all or part of the additional commitment fee.

Except as so amended, the SEPA as amended by Amendment No. 3 thereto remains in full force and effect.

Amendment No. 3 to the SEPA is attached hereto as Exhibit 99.1.

This Form 6-K is hereby incorporated by reference into our Registration Statement on Form F-3 (No. 333- 163196) and our other effective Registration Statements.

Article II. SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

TOWER SEMICONDUCTOR LTD.

By: /s/ Nati Somekh Gilboa

Date: April 23, 2010

Nati Somekh Gilboa
Corporate Secretary
